

for US:

CLAIMS

1. Fusion protein comprising a cellulose binding domain
5 and a domain having a high binding affinity for another
ligand.
2. Fusion protein according to claim 1, wherein the
cellulose binding domain is obtainable from a fungal enzyme
10 origin such as Humicola, Trichoderma, Thermomonospora,
Phanerochaete, Aspergillus or from a bacterial enzyme origin
such as Bacillus, Clostridium, Streptomyces, Cellulomonas
and Pseudomonas.
- 15 3. Fusion protein according to claim 1, wherein the
cellulose binding domain is obtainable from Trichoderma
reesei.
4. Fusion protein according to claim 1, wherein the domain
20 having a high binding affinity is an antibody or antibody
fragment.
5. Fusion protein according to claim 1, wherein the domain
having a high binding affinity is a Heavy Chain antibody as
25 found in Camelidae.
6. Fusion protein according to claim 1, wherein the domain
having a high binding affinity is a peptide.
- 30 7. Fusion protein according to claim 1, wherein the domain
having a high binding affinity is directed at a Benefit
Agent.
8. Fusion protein according to claim 1, wherein the domain
35 having a high binding affinity is directed at a Benefit
Agent selected from the group consisting of a fabric

softening agents, fragrances, perfumes, polymeric
lubricants, photoprotective agents, latexes, resins, dye
fixative agents, encapsulated materials, antioxidants,
insecticides, soil repelling agents or a soil release
5 agents.

9. Fusion protein according to claim 1, wherein the domain
having a high binding affinity is directed at the fabric.

10 10. Fusion protein according to claim 1, wherein the domain
having a high binding affinity is directed at polyester, or
polyester / cotton, or wool.

11. Fusion protein according to claim 1, wherein the domain
15 having a high binding affinity is directed at a specific
part of the fabric.

12. Fusion protein according to claim 1, wherein the
cellulose binding domain is connected to the domain having a
20 high binding affinity for another ligand by means of a
linker consisting of 2-15, preferably 2-5 amino acids.

13. Fusion protein according to claim 1, wherein the domain
having a high binding affinity is directed at a micro-
25 particles which are loaded with a benefit agent.

14. Fusion protein according to claim 1, whereby the domain
having a high binding affinity is a multi-specific antibody
or antibody fragment or an analogous structure, whereby at
30 least one specificity is directed to the fabric and the
others are directed to one or more benefit agents.

15. Detergent composition comprising one or more
surfactants and a fusion protein according to claim 1.

16. Process for delivering a benefit agent to a fabric by
treating said fabric with a composition comprising a fusion
protein according to claim 1 and a benefit agent selected
from the group consisting of softening agents, finishing
5 agents/ protective agents, fragrances and bleaching agents.
